AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0027] on page 6, with the following rewritten paragraph:

Referring now to Figure 9, a solution to the sector boundary problem is illustrated by the modification of two PWM cycles so that the current can be measured. In the sector 0-5 transition, similar to sector transitions 1-2 and 3-4 σ is less than α, i.e., near sector 0-5 boundary. In this situation, the current reconstruction is given by the following equations.

$$I_U=(I_2 + I_4)/2$$
$$I_V=(-I_3 + I_1 - I_2)/2 \qquad (1)$$
$$I_W=(-I_1 + I_3 - I_4)/2$$

Please replace paragraph [0029] on page 7, with the following rewritten paragraph:

Referring now to Figure 10, signal waveforms in sector zero where signal waveforms $60-ß<\sigma<60$ are shown. That is, near sector 0-1 boundary, the current reconstruction is obtained as the U, V and W signals are modified. The reconstructed motor phase currents are obtained according to the following equations.

$$I_U=(I_2 + I_3 - I_4)/2$$
$$I_V=(I_4 + I_1 - I_2)/2 \qquad (2)$$
$$I_W=(-I_1 - I_3)/2$$

Please replace the paragraph [0032] on page 7, with the following rewritten paragraph:

The current reconstruction equations for this sector are as follows.

$$I_U=(I_4 + I_1 - I_2)/2$$
$$I_V=(I_2 + I_3 - I_4)/2 \qquad (3)$$
$$I_W=(-I_1 - I_3)/2.$$

Please replace the paragraph [0034] on page 8, with the following rewritten paragraph:

Referring now to Figure 12, the sector 1 transition near the sector boundary 1-2 is illustrated where $120-\alpha \leq \sigma < 120$. The current reconstruction equations are given as follows.

$$I_U=(-I_3 + I_1 - I_2)/2$$
$$I_V=(I_2 + I_4)/2 \qquad (4)$$
$$I_W=(-I_1 + I_3 - I_4)/2$$